

PAPO 2012 RECLAMATION MONITORING SUMMARY

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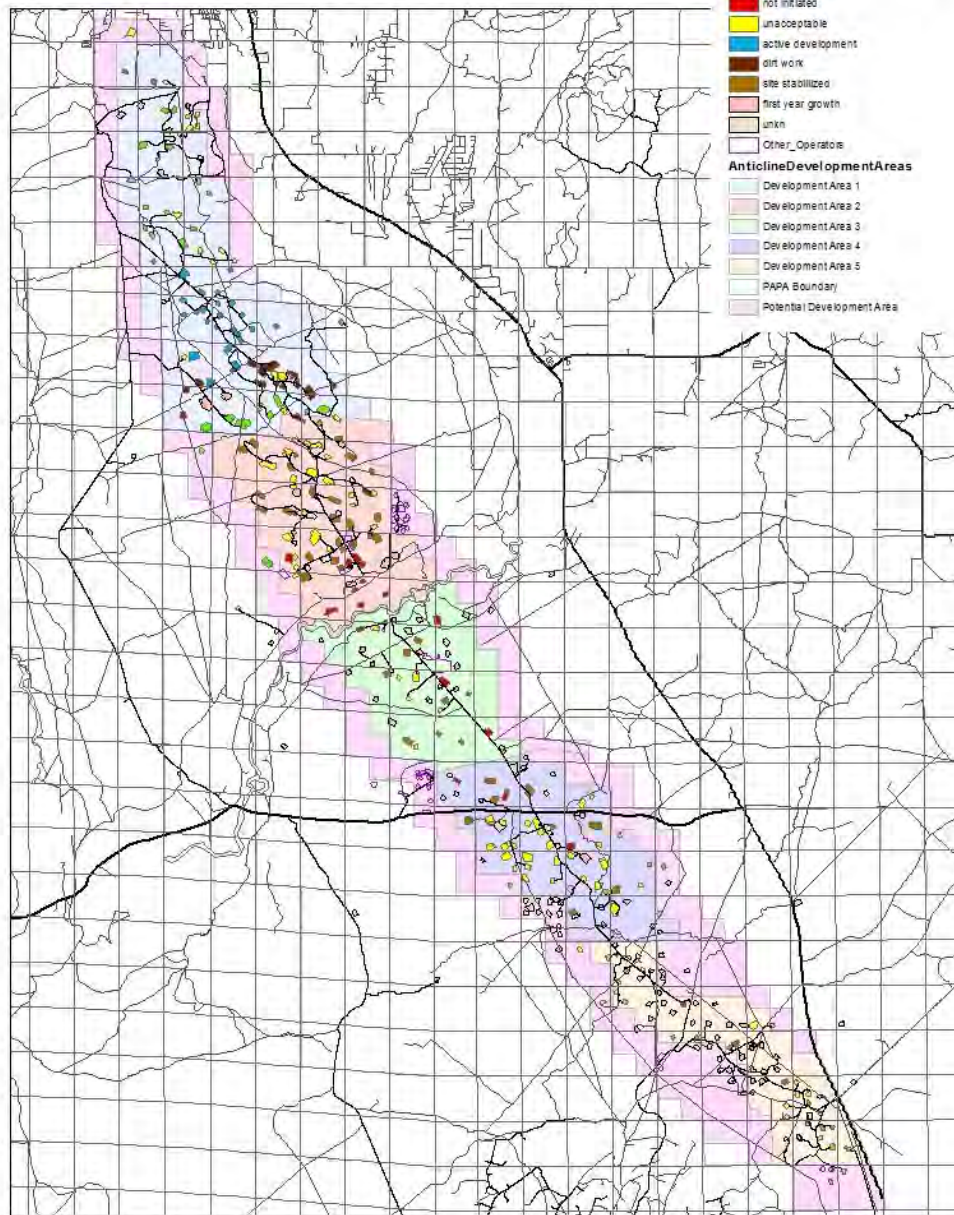


Reported to PADMS

AS OF 11- 2012

- 365 pad locations
- 3164 acres of disturbance
- 1278 acres in interim reclamation
 - 211 reclaimed acres are in interim reclamation full development

Pinedale Anticline Project Area




Reclamation Status



PAPO Monitoring

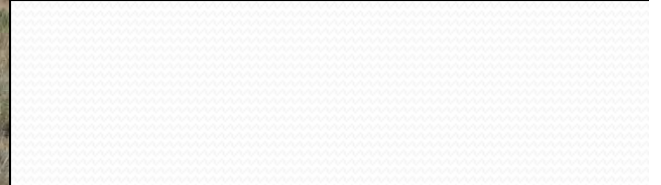
Monitored 136 locations

- 40 moving towards success
 - 96 not moving toward success
 - 30 out of compliance with ROD
 - 21 written orders
- 

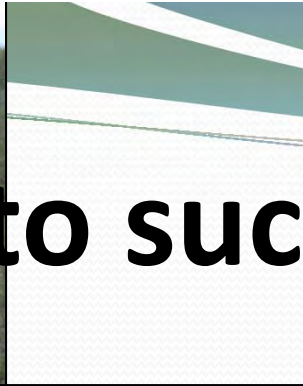
On the path to success



On the path to success



On the path to success



On the path to success



Grasses



Shrubs



Forbs



What Makes the Difference?



Both seeded - fall 2007 MESA

What Makes the Difference?



Both seeded fall 2008 STEWART POINT

What Makes the Difference?



Both seeded fall 2009 WARBONNET



Climatic conditions
.....vs.....what we can control

Issue:

Poor Growth

Weedy

Little or

No Desirables



Issue:

Seeding

Methods

Source



Issue:

Poor Soil



Issue:

Hydrocarbons



Issue:

Grazing or browsing



Issue:

Erosion
Vehicles Driving on
Reclamation



Issue:

Trash



Sites could be brought in more to minimize long term disturbance



QEP



QEP Mesa 8-19



QEP Mesa 7-22





What We Think Might be Contributing to Poor Reclamation

- Potentially improper soil preparation
- Potentially seeding too late (when soil is frozen)
- Seeded too early
- Potentially mixing top soil with sub-soil
- Letting soil sit too long without testing or adding necessary soil amendments
- Hydrocarbons in soil
- Seed quality, seed source or not locally adapted species
- Lack of moisture retention



WHAT WE FOUND

- Inconsistent or inaccurate reporting to PADMS
- Questionable reference locations
- Issues could be addressed sooner
- Reclamation does not keep up with pace of disturbance

Getting from here to there.....

